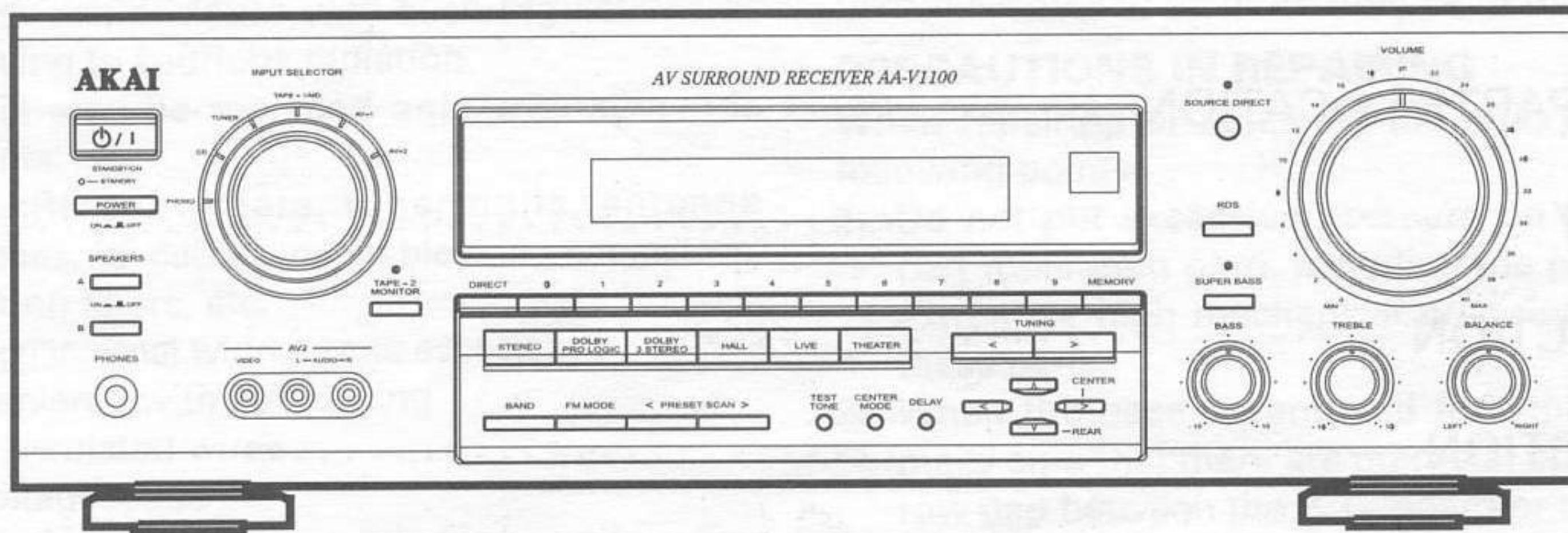


AKAI SERVICE MANUAL



AV SURROUND RECEIVER

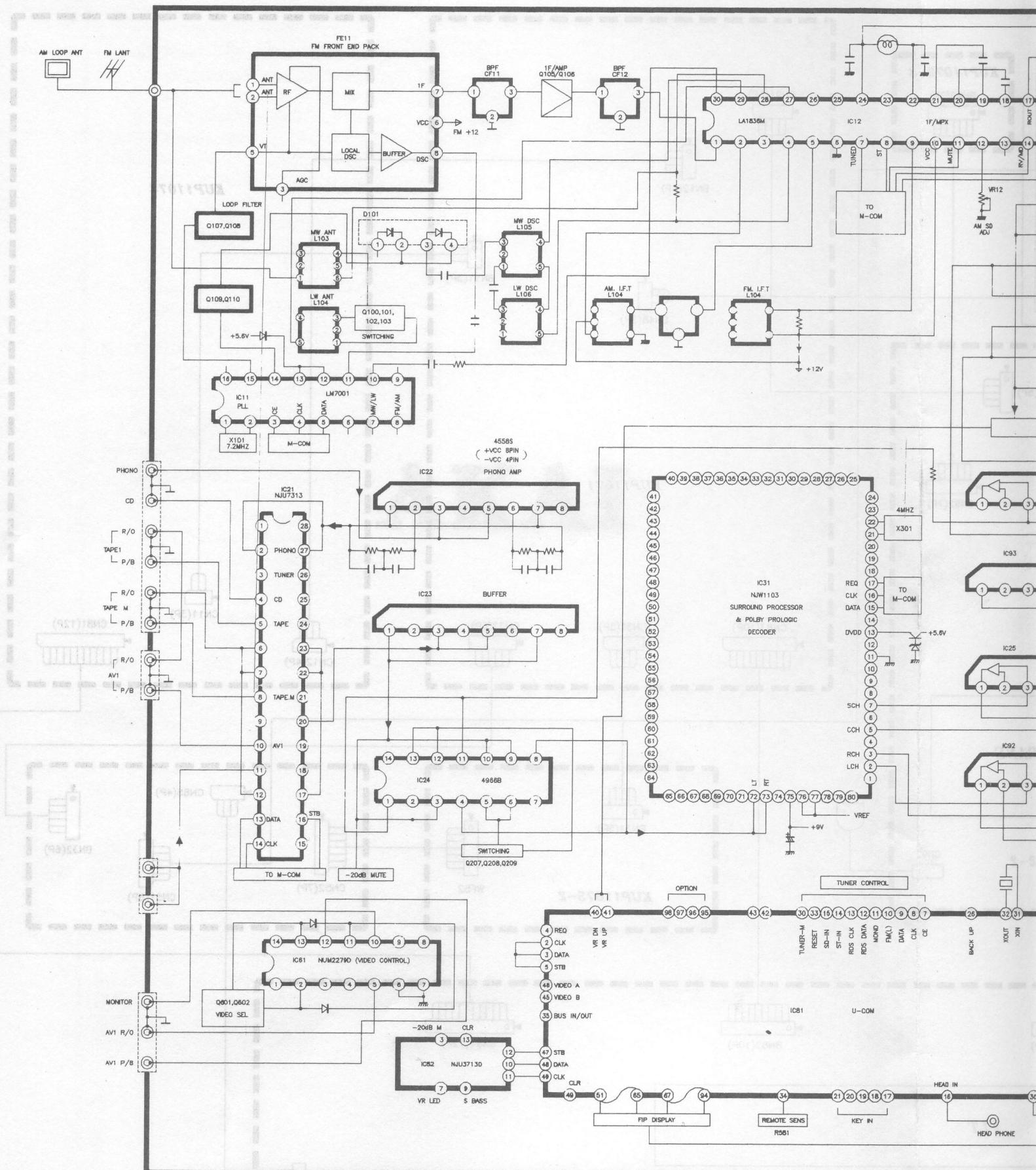
SPECIFICATIONS

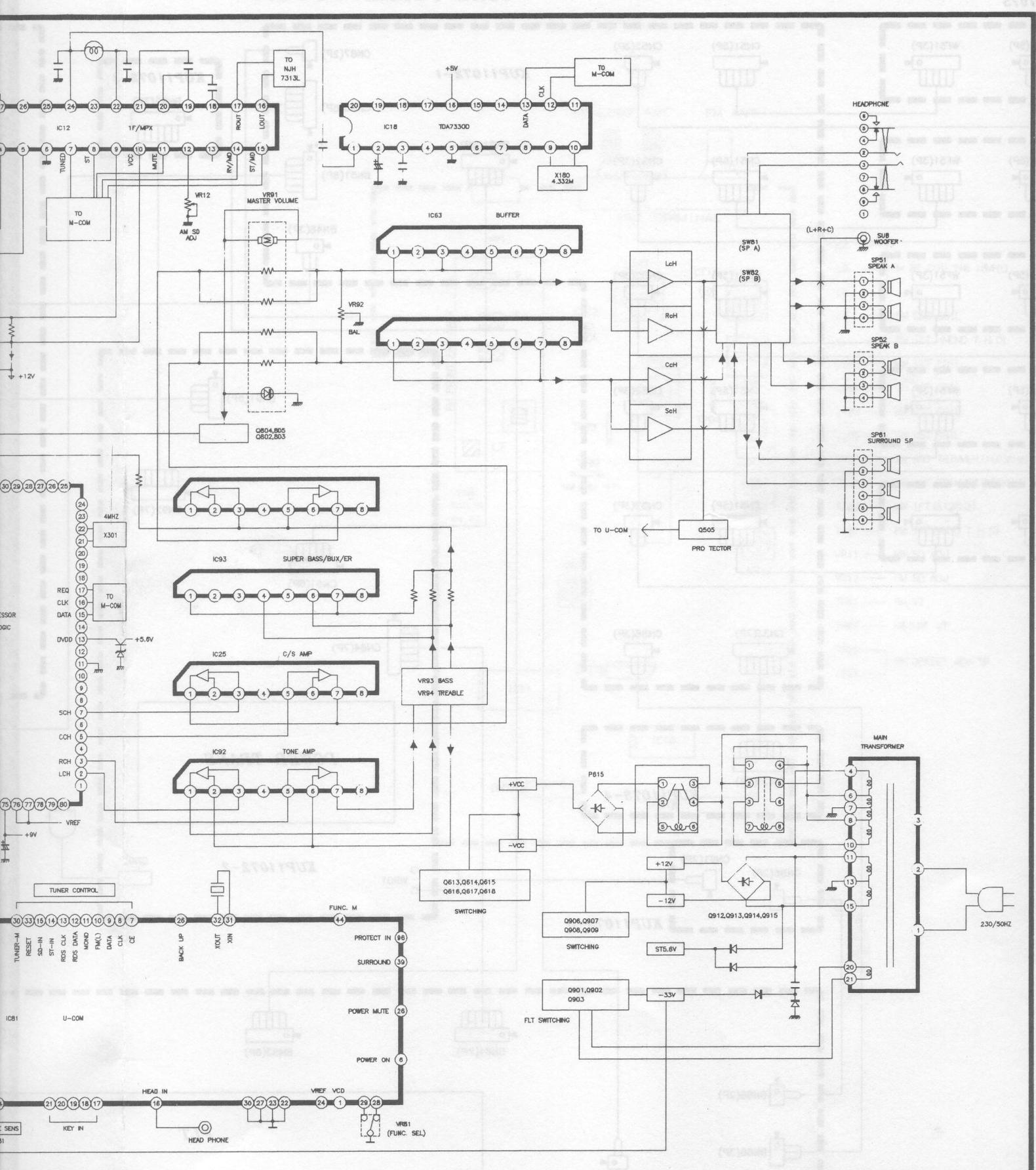
MODEL AA-V1100

AMPLIFIER	TUNER
1 When SOURCE DIRECT is "ON" Sensitivity and Impedance PHONO : 2.5mV/47kΩ CD, TAPE, AV 1/2 : 200mV/22kΩ Frequency Response PHONO(RIAA STANDARD CURVE) :50Hz~15kHz (±1dB) CD, TAPE, AV 1/2 : 10Hz~100kHz S/N Ratio PHONO(IHF-A) : 70dB CD, TAPE, AV(IHF-A) : 95dB Power Output 50W, 1kHz, 8ohm, 0.08% Tone control Treble : ±10dB (10kHz) Bass : ±10dB (100Hz)	1 FM SECTION Frequency Range : 87.50MHz to 108.00MHz (50kHz step) Sensitivy (S/N 30dB) : 3.0μV Total Harmonic Distortion MONO : 0.3% STEREO : 0.5% Signal to Noise Ratio MONO : 70dB STEREO : 65dB Frequency Response : 20Hz~15kHz Image Rejection : 60dB Stereo Separation (1kHz) : 30dB
2 When SURROUND is "ON" (4 ch surround mode) Power Output (at 1ch Drive) Front : 40+40W (1kHz, 0.5% THD, 8ohm) Rear : 20+20W (1kHz, 0.9% THD, 4ohm)	2 MW SECTION Frequency Range : 522kHz to 1620kHz (9kHz step) Sensitivity (S/N 30dB) : 55dB Total harmonic Distortion : 1.5% Signal to noise Ratio : 40dB Image Rejection : 35dB
3 When Dolby Pro Logic is "ON" Power Output (at 1ch Drive) Front : 40+40W (1kHz, 0.5% THD, 8ohm) Center : 40W (1kHz, 0.5% THD, 8ohm) Rear : 20+20W (1kHz, 0.9% THD, 4ohm)	3 LW SECTION Frequency Range : 146kHz to 290kHz (1kHz step) Sensitivity (S/N 20dB) : 60dB
GENERAL Power comsumption : 200W Power supply : AC 230V, 50Hz Dimension (W×H×D) : 430×142×355mm Weight : 7.6kg (net)	Standard accessories Remote control unit 1 Operator's manual 1

* For improvement purposes, specifications and design are subject to change without notice.

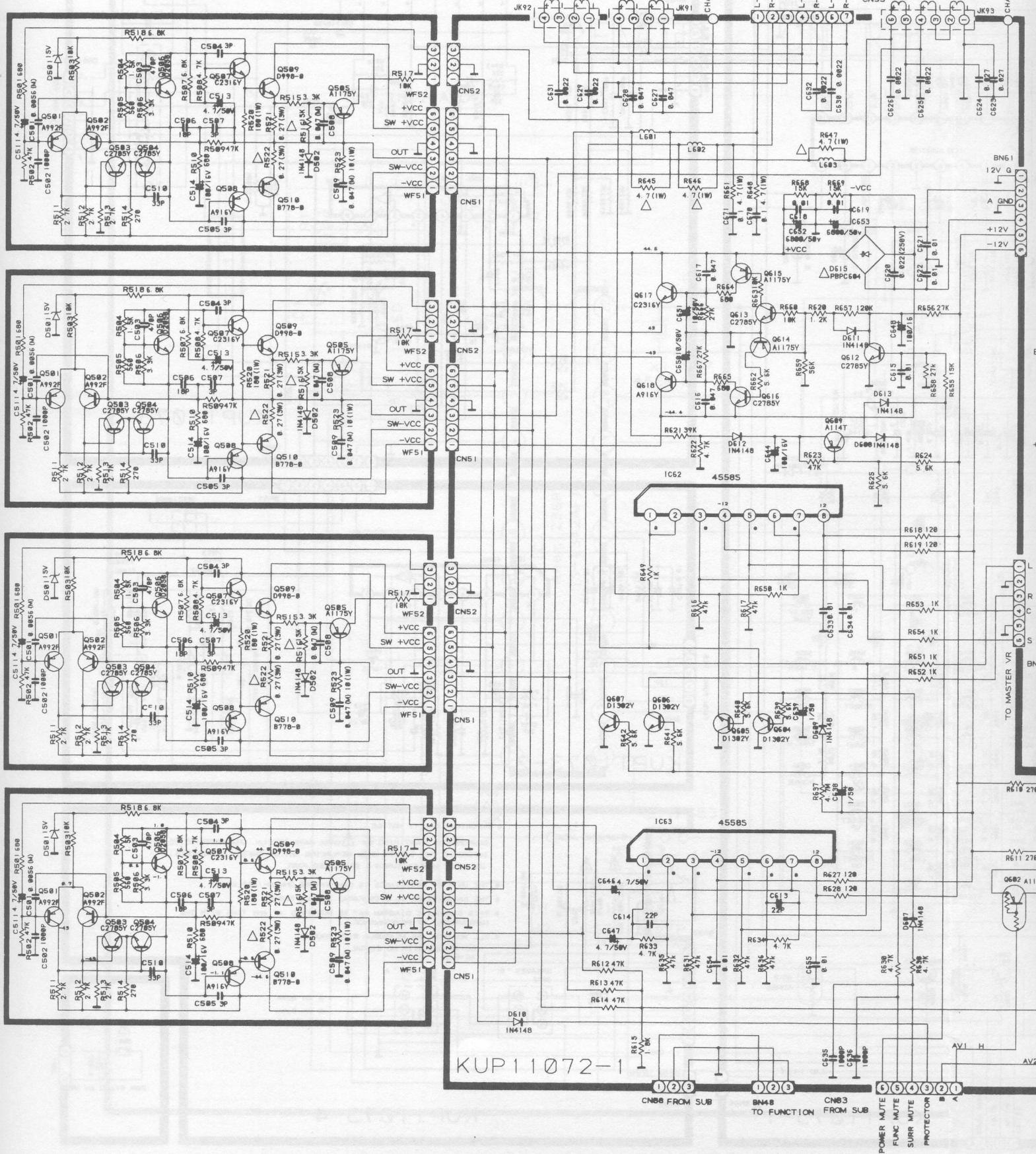
BLOCK DIAGRAM



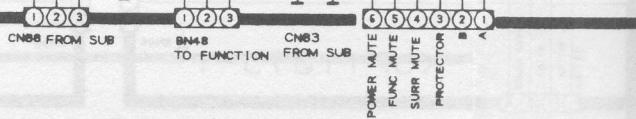


SCHEMATIC DIAGRAM

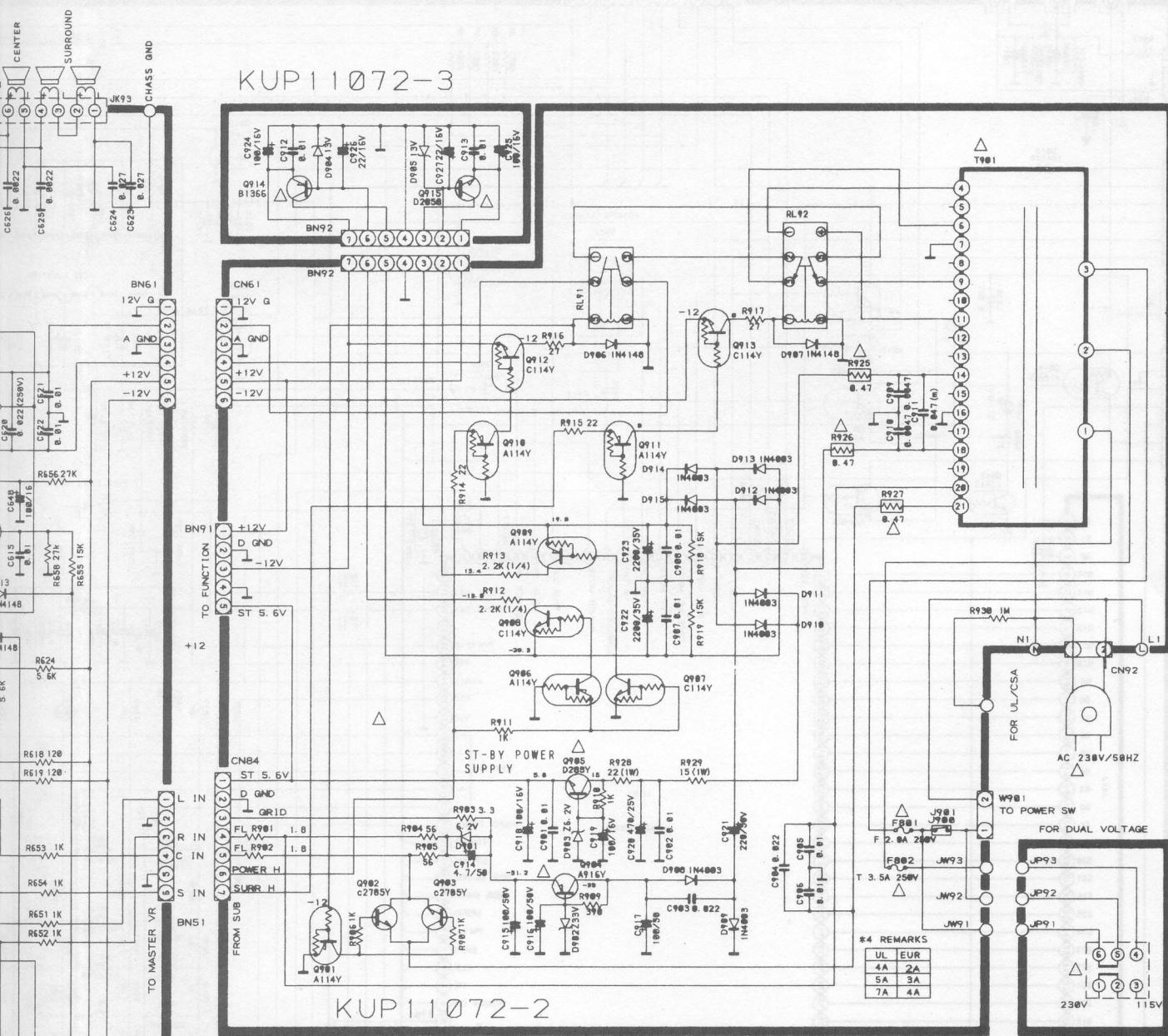
KUP11075Z



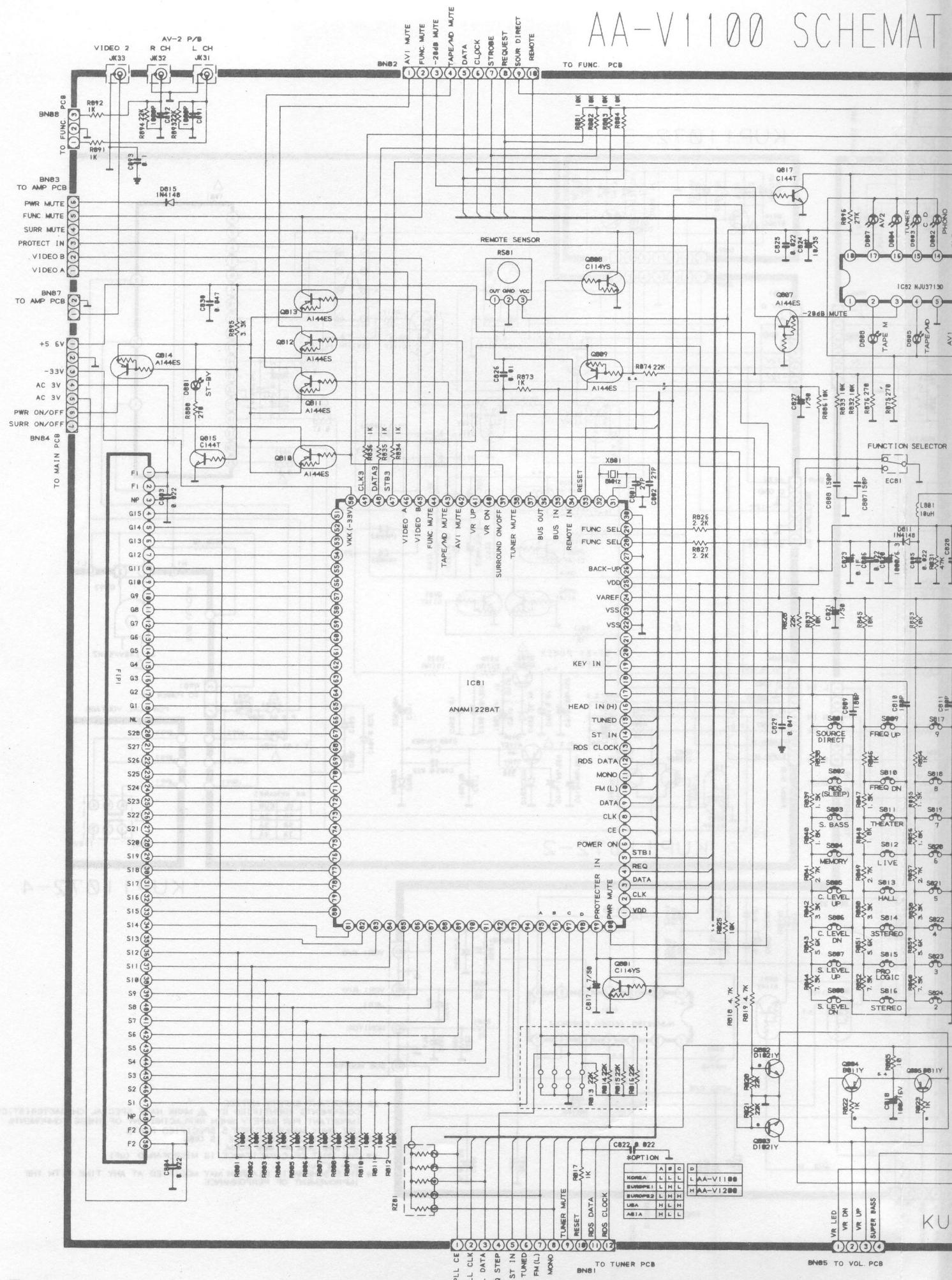
KUP11072-1



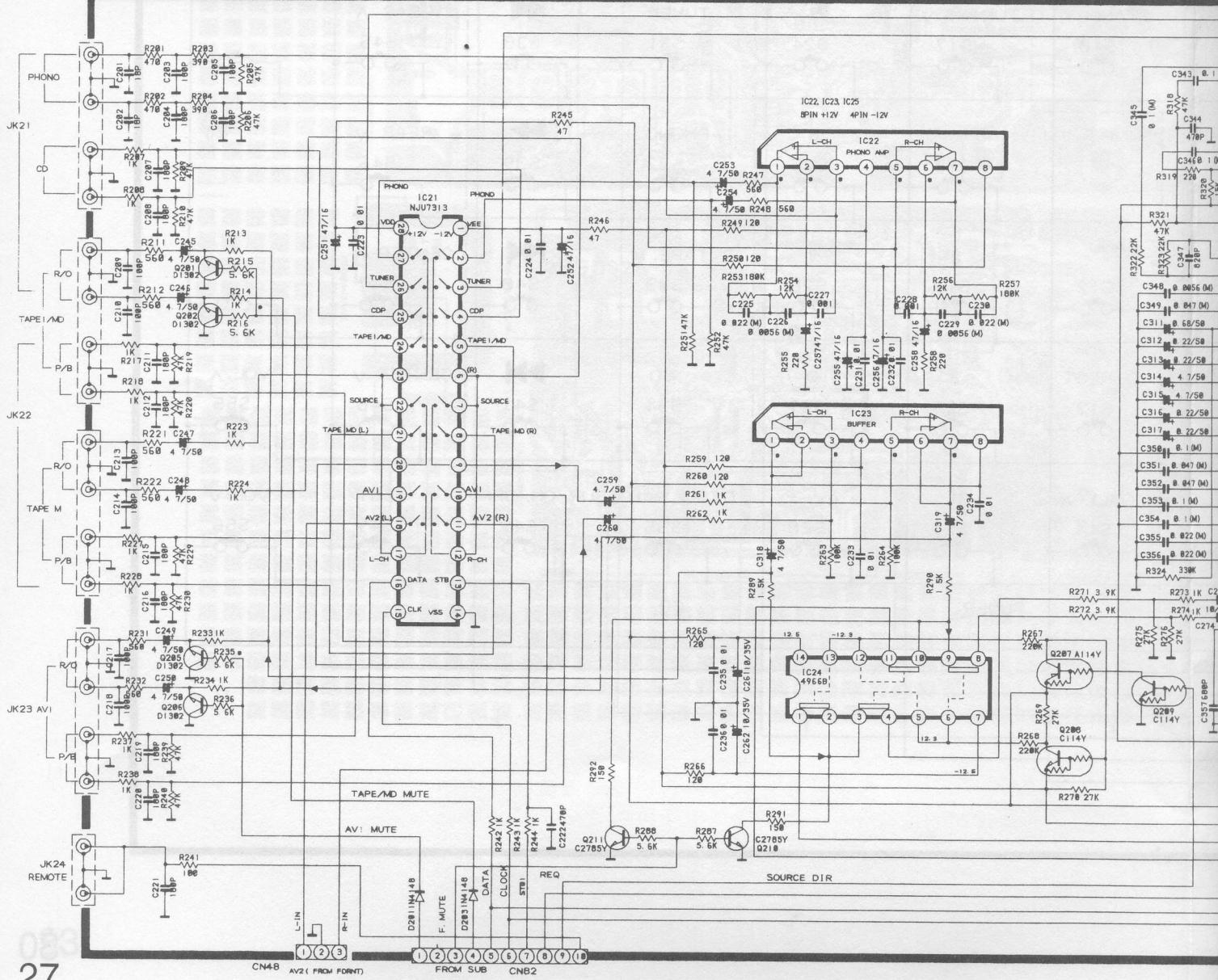
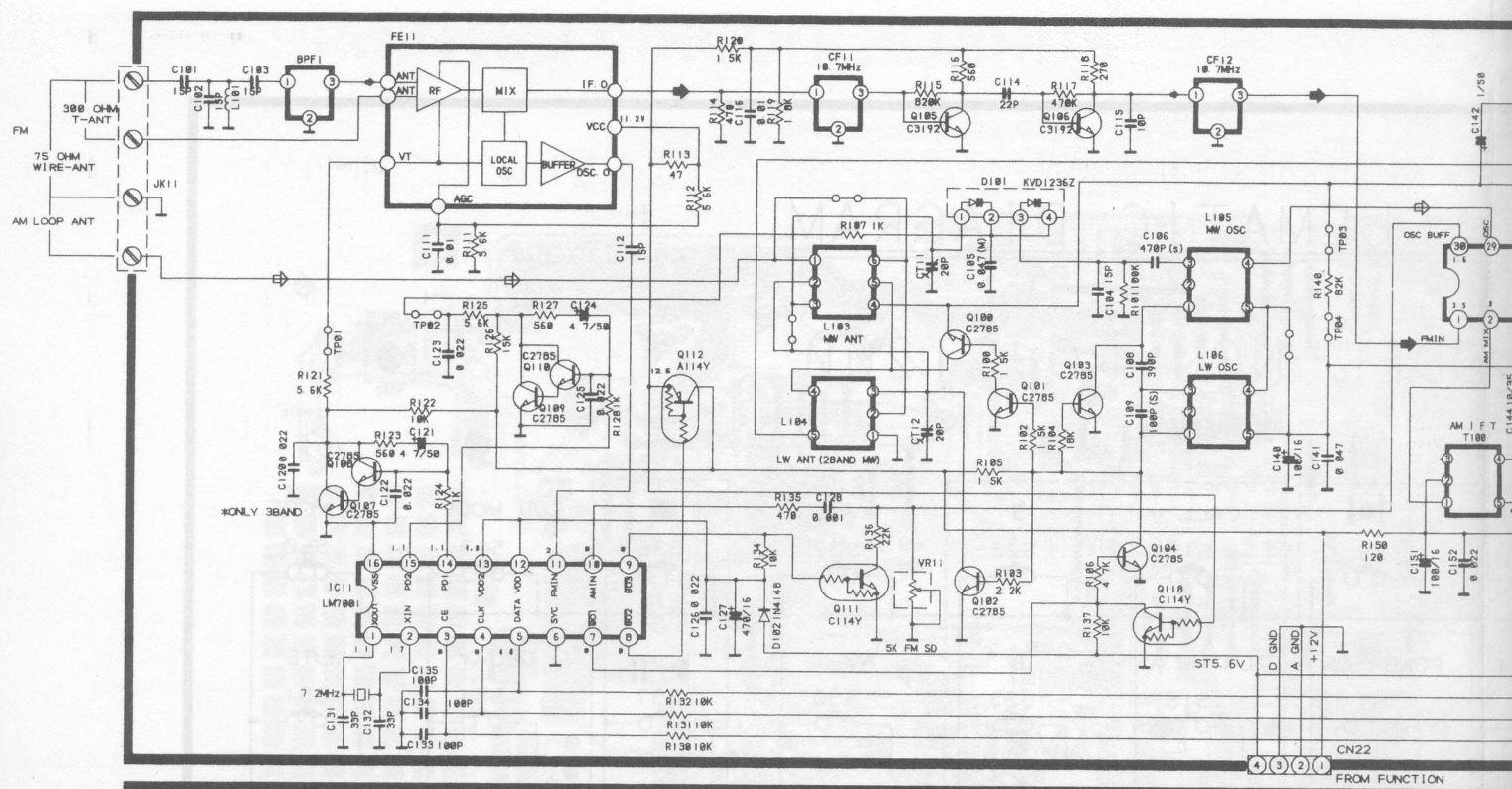
KUP 11072-3



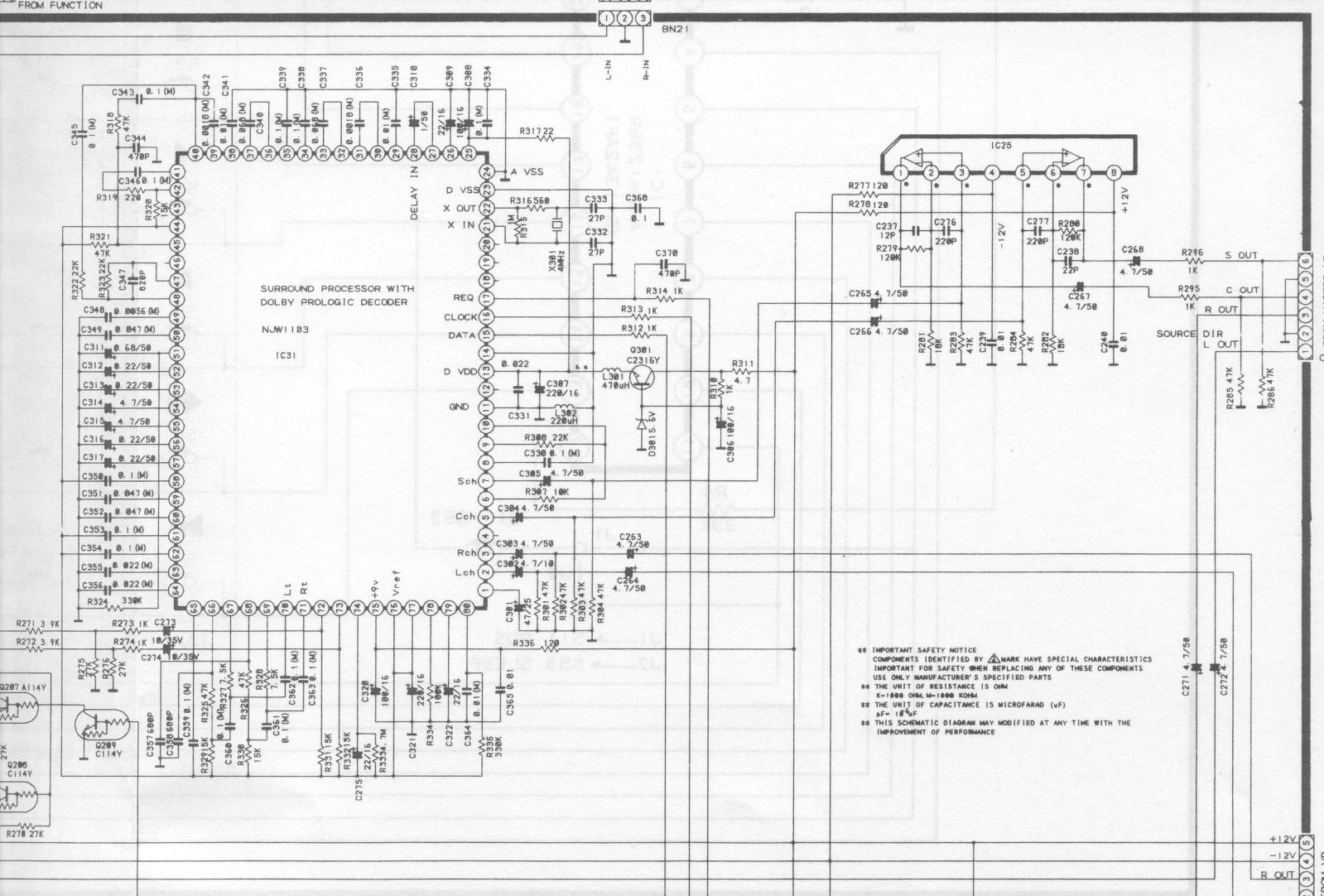
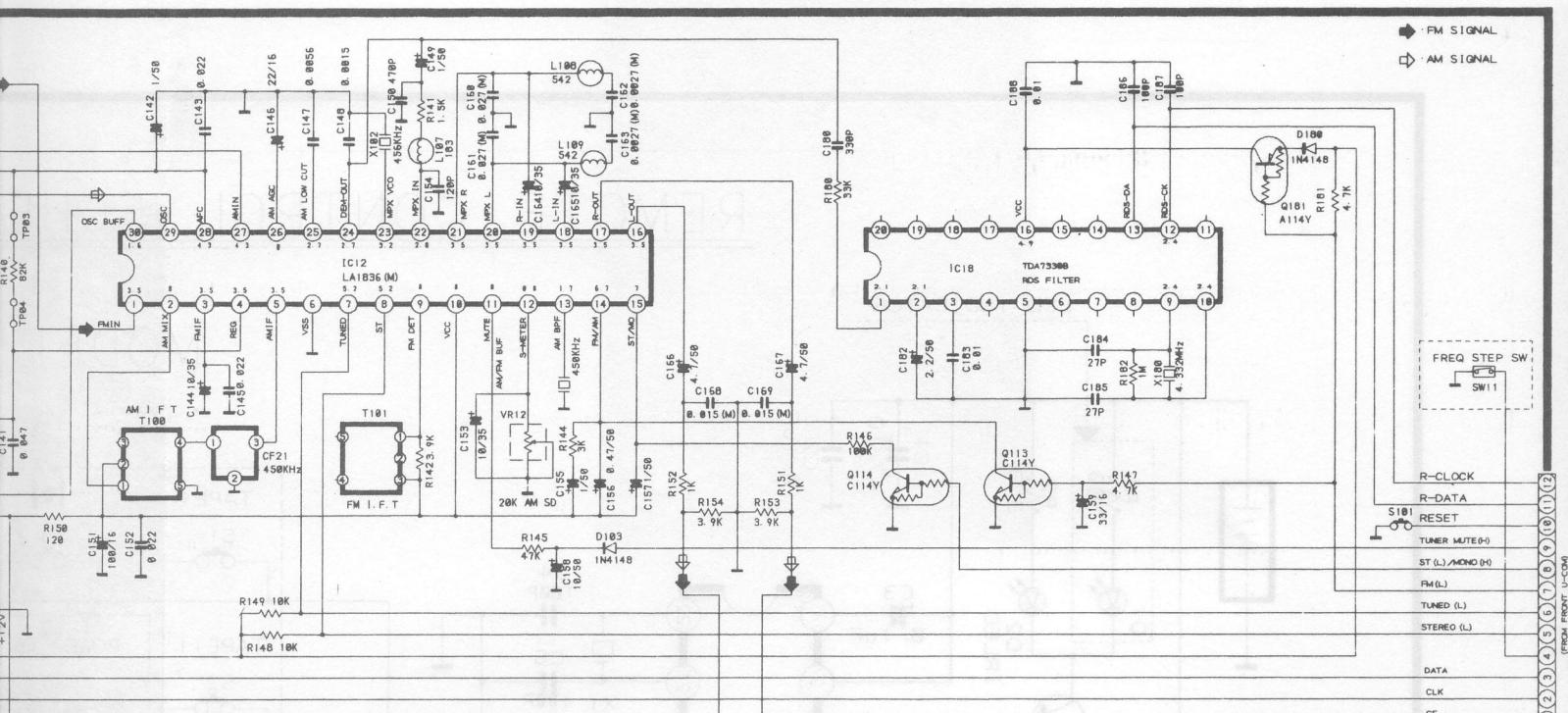
AA-V1100 SCHEMAT



AA-V1100 TUNER & FUNC



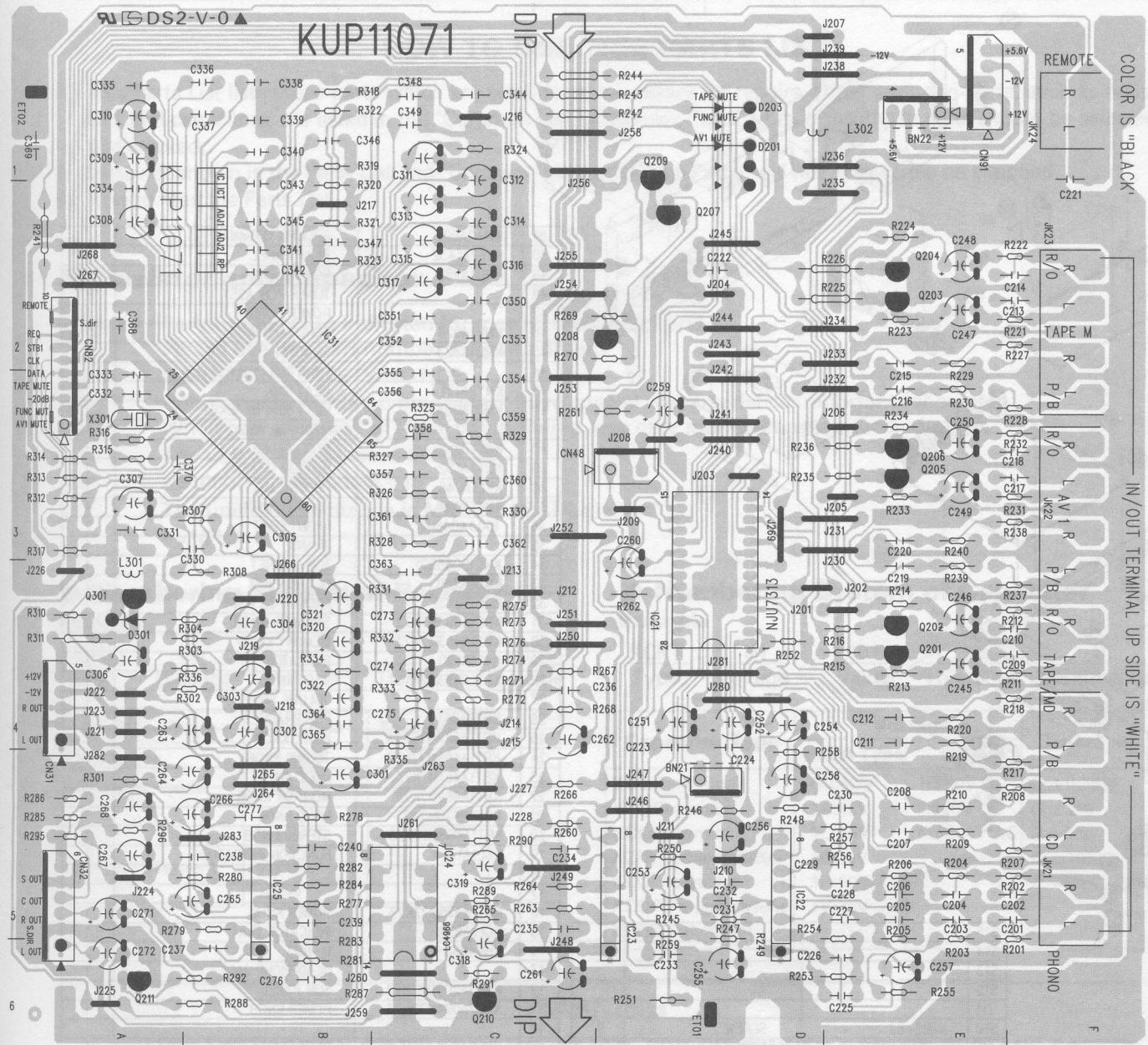
FUNCTION SCHEMATIC DIAGRAM



- #8 **IMPORTANT SAFETY NOTICE**
COMPONENTS IDENTIFIED BY **△** MARK HAVE SPECIAL CHARACTERISTICS
IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS
USE ONLY THE MANUFACTURER'S SPECIFIED PARTS
- #9 **THE UNIT OF RESISTANCE IS OHM**
 $1\text{-}1000 \Omega\text{m}$ = $1000 \text{ K}\Omega$
- #10 **THE UNIT OF CAPACITANCE IS MICROFARAD (μF)**
 $1\text{-}15 \mu\text{F}$ = 15 nF
- #11 **THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE
IMPROVEMENT OF PERFORMANCE**

AA-V1100 : FUNCTION

123456
970000
789101112



■ ELECTRICAL PARTS LIST

REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION
		P. C BOARD BLOCK PART NO.			
	Part No.	Description	BN91	KWZAAV1100BN91	WIRE ASS'Y
	1. KOP11071	FUNCTION PCB ASS'Y	BN92	KWZAAV1100BN92	WIRE ASS'Y
	2. KOP 11072	AMP PCB ASS'Y	CN33	KJP07GB03ZM	WAFER
	3. KOP11073	FRONT PCB ASS'Y	CN51	KJP06GA63ZY	WAFER
	4. KOP 11074	TUNER PCB ASS'Y	CN52	KJP03GA63ZY	WAFER
	5. KOP 11075	TR ARRAY PCB ASS'Y	CN61	KJP06GA01ZM	WAFER
	6. KOP 11106	REMOCON PCB ASS'Y	CN83	KJP08GB46ZM	WAFER
			CN84	KJP07GA01ZM	WAFER
			CN88	KJP03GB03ZM	WAFER
			CN92	KJP02GA61ZP	WAFER
		FUNCTION PCB BLOCK CONSISTS FOLLOWING P.C.B			
		* FUNCTION CONTROL P. C. BOARD	C620	△ KCKW2H223ZF	CAP, CERAMIC
		* DOLBY SURROUND P. C. BOARD	C652, 653	△ KCETS63V682	CAP, ELECT
		AMP PCB BLOCK CONSISTS FOLLOWING P. C. B	C920	△ KCEA1EH471E	CAP, ELECT
		* POWER SUPPLY P. C. BOARD	C922, 923	△ KCEA1EH222E	CAP, ELECT
		* VIDEO CONTROL P. C. BOARD	D615	△ BVDPBU604F	DIODE, BRIDGE
		FRONT PCB BLOCK CONSISTS FOLLOWING P. C. B	IC61	BVINJM2279D	IC, VIDEO
		* μ - COM P. C. BOARD	IC62, 63	BVINJM4558L	IC
		* SP SWITCH P. C. BOARD	JK51	KJJ4P020Z	JACK, BOARD
		* TONE CONTROL P. C. BOARD	JK91	KJJ5P012Z	TERMINAL, SPEAKER
		* MASTER VR P. C. BOARD	JK92	KJJ5P013Z	TERMINAL, SPEAKER
		* AV2 INPUT P. C. BOARD	JK93	KJJ5R003Z	TERMINAL, SPEAKER
		* POWER SW P. C. BOARD	L601~L603	△ KLEYK1R8KA	COIL
		1. FUNCTION PCB			
BN21	KWZAAV1100BN21	WIRE ASS'Y	Q914	△ KVTKTB1366Y	T.R
BN22	KWZAAV1100BN22	WIRE ASS'Y	Q915	△ KVTKTD2058Y	T.R
CN31	KJP05GA01ZM	WAFER	RL91	△ BSL4A004ZU	RELAY
CN32	KJP06GA01ZM	WAFER	RL92	△ KSL4B003ZW	RELAY
CN48	KJP03GA01ZM	WAFER	R645~R648	KRG1ANJ4R7H	RES, METAL, OXIDE FILM
CN82	KJP10GA19ZM	WAFER	R661		
CN91	KJP05GA01ZM	WAFER	R925~R927	△ KRQ1AJR47H	RES, FUSH
ET01	KMA2A001	TERMINAL, GROUND	R928, 929	△ KRG1ANJ220H	RES, METAL, OXIDE FILM
IC21	BVINJU7313L	IC	W901	KWZAAV1100W91	WIRE ASS'Y
IC22, 23	BVINJM4558L	IC			
IC24	BVILC4966	IC			
IC25	BVINJM4558L	IC			
JK21, 22	KJJ4R012Z	TERMINAL, IN/OUT	3. FRONT PCB		
JK23	KJJ4P014Z	JACK, IN/OUT	BN31	KWZAAV1100BN31	WIRE ASS'Y
JK24	KJJ4N026Z	JACK, BOARD	BN32	KWZAAV1100BN32	WIRE ASS'Y
X301	BVFZTA4, 00MG	RESONATOR, CERAMIC	BN33	KWZAAV1100BN33	WIRE ASS'Y
			BN81	KWZAAV1100BN81	WIRE ASS'Y
		2. AMP PCB	BN82	KWZAAV1100BN82	WIRE ASS'Y
BK51	KMD1A081	BRACKET, PCB	BN83	KWZAAV1100BN83	WIRE ASS'Y
BN48	KWZAAV1100BN48	WIRE ASS'Y	BN84	KWZAAV1100BN84	WIRE ASS'Y
BN51	KWZAAV1100BN51	WIRE ASS'Y	BN85	KWZAAV1100BN85	WIRE ASS'Y
BN61	KWZAAV1100BN61	WIRE ASS'Y	BN86	KWZAAV1100BN86	WIRE ASS'Y
			BN88	KWZAAV1100BN88	WIRE ASS'Y
			BRK3~BRK6	KHE170	HOLDER, PCB

REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION
CN51	KJP06GA01ZM	WAFER	L108, 109	KLQB542KLZ	COIL
CN52	KJP07GA63ZY	WAFER	S101	KST1A010Z	SW, TACT
CN85	KJP03GA01ZM	WAFER	T100	KLI2B103-G	I. F. T, AM
CN86	KJP03GB03ZM	WAFER	T101	KLI3B028Z	I. F. T, FM
CN91	KJP02GA89ZM	WAFER	X101	BOX07200D320C	CRYSTAL
C823	BCES5R5V104	CAP, GOLD	X102	BVFZTB456F11	RESONATOR, CERAMIC
C901	BCKWKC472MF	CAP, CERAMIC	X103	BVFLZU450C4N	FILTER, CERAMIC
EC81	BSR2A006Z	VR, ENCODOR	X180	BOX04332A200C	CRYSTAL
FIP1	BFLFIPCM1551D	F. I. P			
IC82	BVINJU3713D	IC			5. TR ARRAY PCB
IC91~IC93	BVINJM4558L	IC	Q506	△ KVTKTD2058Y	T.R
JK31	KJJ4M012Z	JACK, VCR (S/W)	Q509	△ KVTKTD9980	T.R
JK32	KJJ4M013Z	JACK, VCR (S/W)	Q510	△ KVTKTB7780	T.R
JK33	KJJ4M014Z	JACK, VCR (S/W)	R520	△ KRG1ANJ181H	RES, METALOXIDE FILM
JK34	BJJ2E020E	JACK, HEAD PHON	R521, 522	△ KRF3CJR27H	RES, CEMENT
RS81	BRVPNA4612M0HB	SENSOR, REMOCON	R523	△ KRG1ANJ100H	RES, METAL OXIDE FILM
RS81	KRGSN5X473J	RES, NETWORK	WF51	KJP06HB60ZY	HOUSING, ANGLE
R991, 992	△ KRG1ANJ391H	RES, METAL OXIDE FILM	WF52	KJP03HB60ZY	HOUSING
SW81, 82	KSH2B017Z	SW, PUSH			6. REMOCON PCB ASS'Y
SW91	△ KSH1A001ZV	SW, PUSH (MOMS)	IC10	BVIANAM1236R	IC, REMOCON
VR91	BVBB03A104Z	VR, MOTOR	C101	KCEA1EH470T	CAP, ELECT
VR92	BVV1T01W104Y	RES, VARIABLE	C102, 103	KCBS1H104ZFT	CAP, CERAMIC
VR93, 94	BVV2W01C104Y	RES, VARIABLE	C104, 105	KCBS1H101KBT	CAP, CERAMIC
WF52	KJP07HB60ZY	HOUSING	D101	KVDAL131RD	LED
W802	KWZAV350077	WIRE, ASS'Y	D102	KVDAFHP52	LED
X801	BOX08000E200C	CRYSTAL	Q101	KVTKTC3203YT	T.R
					4. TUNER PCB
BK11	KMD1A081	BRACKET, PCB	R101	KRD20TJ101T	RES, CARBON
BPF1	KVFBPMB8	B. P. F	R102	KRD20TJ3R3T	RES, CARBON
CF21	KVFSBF450BL	FILTER, CERAMIC	R103	KRD20TJ100T	RES, CARBON
			R104	KRD20TJ333T	RES, CARBON
			X101	BSB455EB1	RESONATOR, CERAMIC
CN21	KJP03GA01ZM	WAFER			7. MISCELLANEOUS
CN53	KJP04GA01ZM	WAFER		KSA1A007	AM LOOP ANT ASS'Y
CN81	KJP12GA19ZM	WAFER		KSA1A008	ANT, FM WIRE
CT11, 12	KCRA020S12	CAP, VARIABLE		△ KLT5R027ZE	TRANS, MAIN
C106	KCQS1H471JZ	CAP, STYROLE		△ KBA2C2000TLE	FUSE
C109	KCQS1H101JZ	CAP, STYROLE		KUR038ANA	REMOTE TRANSMITTER ASS'Y
D101	KVDK1236Z	DIODE		(RC-S1200)	
FE11	KNVFTA4460H	TUNER, PACK			
IC11	BVILM7001	IC			
JK11	KJJ3S006Z	TERMINAL, ANT			
L101	KLA4Y106Z	COIL, FILTER			
L103	KLA2C004	COIL, AM ANT1			
L104	KLA2B005	COIL, LW ANT			
L105	KL01B008Z	COIL, AM OSC			
L106	KL01B002	COIL, LW OSC			
L107	KLQA183KWCZ	COIL			